

GSFC Software Development Process Website Overview

June 7, 2005

Presented by: Mike Stark
Software Process Improvement (SPI) Project

Agenda

- Overview of Website Main Pages
- Website Demonstration
- Question and Answer Session

Purpose and Objectives

- **Purpose - Provide an overview of the Software Development Process Website contents and information views available**
- **Objective - After this class you should:**
 - Know what information is available on the website
 - Know where to find specific information
 - Know how to navigate through the available “views” to find what you are looking for
 - Know how to provide feedback on the processes and on the web pages

What's on the Website?

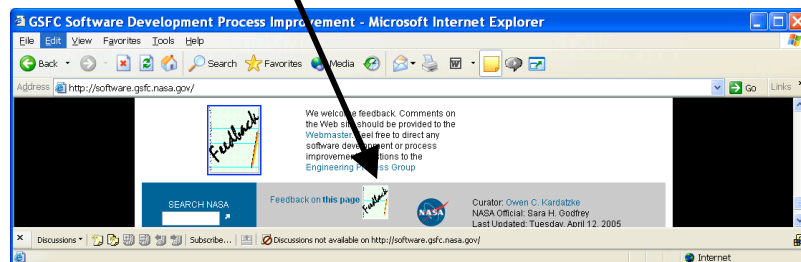
- **Process Improvement Information**
- **Process Asset Library (PAL)**
 - Policies
 - Processes and Subprocesses
 - Procedures
 - Guidelines
 - Templates
 - Checklists
 - Role Descriptions
- **Training and Conference Information**
- **Tools and Tool Information**
- **Measurement Information**
- **Lessons Learned Information**

GSFC Process Improvement Main Page

URL: <http://software.gsfc.nasa.gov/>

What's on this page ...

- Services
- News and Upcoming Events
- General information
- Conferences
- Page links
- View options
- Web page feedback link (on each page)

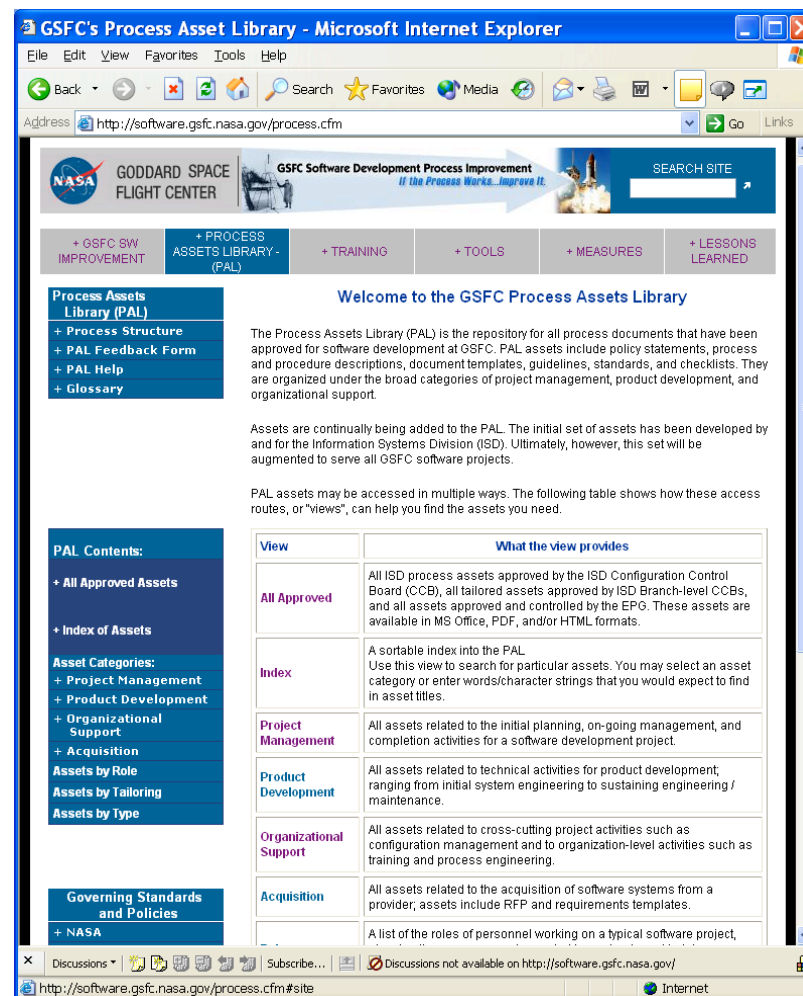


Process Asset Library (PAL) Main Page

<http://software.gsfc.nasa.gov/process.cfm>

What's on this page ...

- Links to PAL information
- Links to PAL asset
- Links to other standards and policies
- View options
- Process asset feedback link



GSFC Training Program Main Page

<http://software.gsfc.nasa.gov/training.cfm>

What's on this page ...

- Links to ISD Training Program information
- Links to conference information
- Access to experts
- *Future* – information on training services
- Links to other training programs



GSFC Software Training Program

The goals of the GSFC Software Training Program are to identify, document, and deploy proven best practices for software engineering on GSFC projects; to provide awareness of key software development issues to GSFC customers and collaborators; to enhance the skills of GSFC developers and team leads; and to ensure compliance of NPR 7150.2 across the GSFC. To achieve these goals, the training techniques employed include training classes, software awareness discussions, mentoring, on-the-job training, conference attendance, and use of experts.

This site is the repository for software training-related materials. It provides news and information on upcoming events related to software training, access to the most recent Software Training Plan, and links to other relevant information (training calendar, on-line slides, etc.).

[ISD Software Training plan](#) [Or in PDF](#)

Training News

[NPR 7150.2/IEEE 12207 Class](#)

Dr. Lewis Gray from Abellia, along with a NASA SWG team, are working on a mapping tool of IEEE 12207 to NPR 7150.2. The tool will help with implementation of the NPR for Classes A, B, C, and F, and help translate NPR requirements to contract language for acquisitions. The training for the tool will most likely be a VITs.

The Following Classes Are Forming:

-NPR 7150.2/IEEE12207 Mapping Tool -Software Inspections Class -Mastering Process Improvement-Intermediate CMMI- Managing Projects with Metrics If you are interested in any of these classes, please e-mail Sally Godfrey. Dates and locations (not necessarily at GSFC) will be announced when there is sufficient response.

Upcoming Events

S/W Engineering Discussions

Title	Speaker	Date/Time	Location
ISD Software Development Process Website Overview	Linda Landis	Jun 02, 2005 1:00 PM	Building 23, Room C432
Metrics for Projects	Mike Stark	Jun 13, 2005 1:00 PM	Building 23, Room C432

Software Tools Main Page

<http://software.gsfc.nasa.gov/tools.cfm>

What's on this page ...

- Tool Assets
- Views of tools by role
- Links to other tool sites
 - GSFC Tool Sites
 - *Future* – NASA Tool Sites
 - Industry and Academia Tool Sites

Software Development Tools - Microsoft Internet Explorer

Address: <http://software.gsfc.nasa.gov/tools.cfm>

GODDARD SPACE FLIGHT CENTER **GSFC Software Development Process Improvement** *If the Process Works... Improve It.* **SEARCH SITE**

+ GSFC SW IMPROVEMENT + PROCESS ASSETS LIBRARY - (PAL) + TRAINING **+ TOOLS** + MEASURES + LESSONS LEARNED

Tools by Role
 GSFC Tool Sites
 NASA Tool Sites
 Industry and Academia Tool Sites

Introduction to Tools

The tools listed in the table below have been (or are being) developed for use at GSFC. If a tool is available, its title is shown as a hyperlink. Click on the title to view more detailed information and to access the tool itself, along with associated files (e.g., users' guides).

This table may be sorted by asset number, title, owner, process supported, or status. Simply click the appropriate column title. To find a particular tool, enter all or part of its title in the box below, and then click the "Find Tool" button.

List only tools with title containing: **Find Tool** <==== Begin Tool Search by title string

Asset Number	Title	Owner	Process Supported	Status (More Info)
1.2.1.1	Software Estimates/Actuals Database	580	Project Planning	Not started
1.2.1.1.1	FSW Cost Estimation Spreadsheet/Guidelines	582	Project Planning	Draft
1.2.1.1.2	FSW Complexities & Cost Comparisons Database	582	Project Planning	Not started
1.2.2.1	FSW Staff Planning/Actuals Process (and Spreadsheet)	582	Project Planning	Draft
1.2.3.2.2	FSB Generic FSW Risks Database	582	Project Planning	Not started
1.2.3.3	Risk Management Tool	580	Project Planning	Not started
1.2.3.3.1	FSB Risk Management Tool	582	Project Planning	CCB approved
1.4.2.1	Point Counting Spreadsheets	580	Project Monitoring and Control	EPG approved
1.4.3.1.2	FSW Lessons-Learned Tool	582	Project Monitoring and Control	Draft
1.4.3.5.1	FSB Action Item Tracking Tool	582	Project Monitoring and Control	Final
2.1.1.3.3	FSW Key Trades/Decisions/Impacts Log Tool	582	Software Systems Engineering	Not started
2.2.1.7.2	FSB RFA Tracking Tool	582	Software Requirements Engineering	CCB approved
2.5.2.2.1	SPIDER (Web-based Bug Tracking Tool)	588	Testing	588 approved

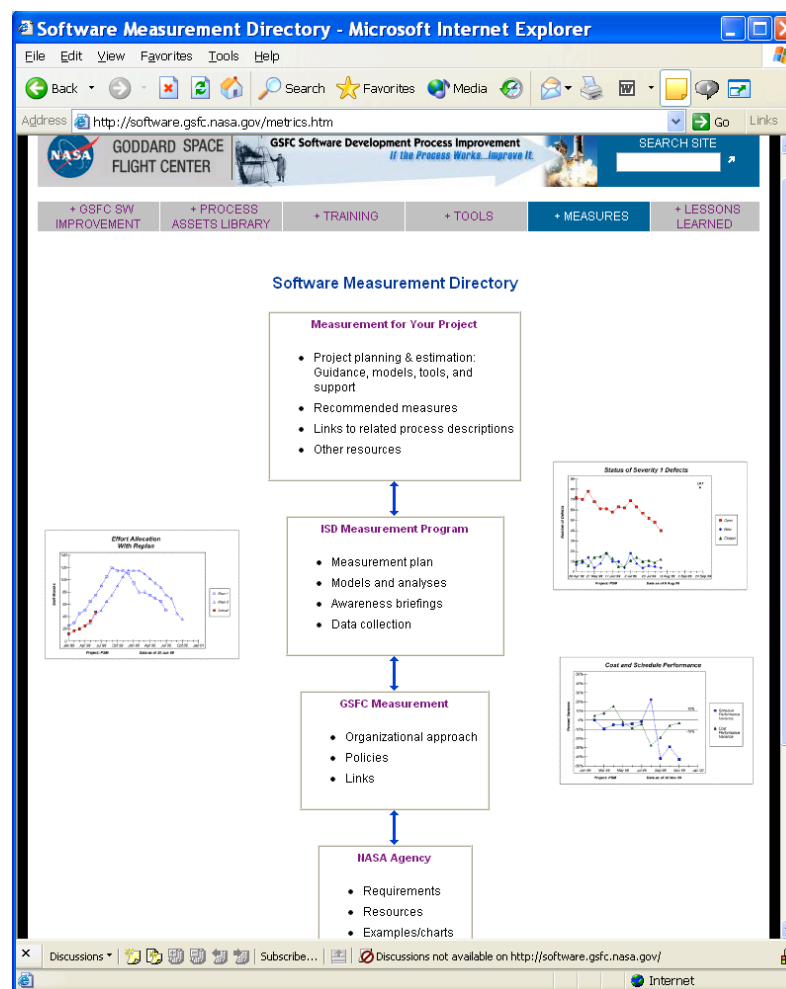
Discussions | Subscribe... | Discussions not available on <http://software.gsfc.nasa.gov/>

Software Measurement Main Page

<http://software.gsfc.nasa.gov/metrics.htm>

What's on this page ...

- Project Measurement Information
- ISD Measurement Program Information
- GSFC Measurement Information
- NASA Measurement Information



Lessons Learned Main Page

<http://software.gsfc.nasa.gov/lessons.cfm>

What's on this page ...

- New Lessons Learned
- SW Golden Rules
- Lessons Learned Assets
 - By Role Category
 - By Category
 - By Phase
 - By Project
- Links to other lessons learned sites
- Glossary

GSFC EPG Lessons Learned - Microsoft Internet Explorer

Address: <http://software.gsfc.nasa.gov/lessons.cfm>

Views of Lessons Learned

- + By Role Category
- + By Category
- + By Phase
- + By Project
- Subscribe to Lessons Learned
- Unsubscribe to Lessons Learned
- Feedback on Lessons Learned
- Expert Link
- Other Lessons Learned Systems
- + Glossary

Introduction to Lessons Learned

Lessons learned by GSFC software managers and developers may be accessed using this web page. This enables the knowledge gained from past experience to be applied to current and future projects. The intent is to avoid the repetition of past problems and facilitate the sharing of observations and best practices.

Note that GSFC lessons learned have been grouped in several ways: ROLE (management, systems engineering, testing, etc.), CATEGORY (acquisition, training, tools, etc.), life-cycle PHASE, and PROJECT. This allows lessons learned to be accessed based upon the user's area of interest.

The NASA Lessons Learned Information System (LLIS) (<http://llis.nasa.gov>) provides Agency-level lessons learned. (A feature-rich LLIS replacement system is planned for late 2004.) GSFC-level lessons learned are promoted to Agency-level lessons learned as appropriate (mechanism TBD).

What's New?

Category	Date	Lesson Summary	Source
Training	06/15/2004	Match material available and amount of time available.	Quantitative SW management offering
Training	06/15/2004	Exercises need to be piloted.	Quantitative SW management offering
Training	06/15/2004	Readability of Slides	Quantitative SW management offering
Training	06/15/2004	Clearly define logistics responsibilities.	Quantitative SW management offering

Software Goldbook Rules

From the GSFC Goldbook of rules (available within the NASA-GSFC domain only.)

Providing Feedback

■ Provide feedback on assets or the PAL

- Go to <http://software.gsfc.nasa.gov/index.cfm>
- Highlight process name and click for a **Feedback Form**



Software Process Assets Feedback Form - Microsoft Internet Explorer

Address: <http://software.gsfc.nasa.gov/feedbackPA.cfm?paNumber=1.2>

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GSFC Software Development Process Improvement
If the Process Works... Improve It.

SEARCH SITE

GSFC Software Process Asset Feedback Form

Use this form to provide feedback on one or more of the assets in the Process Asset Library (PAL).

Name:

Phone (Optional):

Email:

Employment Organization

☒ Civil Servant NASA/GSFC Organization Code: 100

☐ Contractor Contractor:

☐ Other Organization/Institution Organization/Institution:

Nature of Feedback on PA1.2 ISD Project Planning Process

☒ Comment ☐ Problem ☐ Suggestion ☐ Document Change ☐ New Asset Needed

Feedback Information

Location & Referred from: <http://software.gsfc.nasa.gov/ISDpaAll.cfm>

By browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Enter Feedback here:

- **Get help when you need it**
 - **Sally Godfrey – Software Process Improvement Manager**
 - Sara.H.Godfrey@nasa.gov
 - **Sanjeev Sharma – Software Process Improvement**
 - Sanjeev.K.Sharma@nasa.gov

Website Demonstration & Questions